

Biodiesel Vehicle and Infrastructure Codes and Standards Chart

Many standards development organizations (SDOs) are working to develop codes and standards needed for the utilization of alternative fuel vehicle technologies. This chart shows the SDOs responsible for leading the support and development of key codes and standards for biodiesel.

Vehicles

CONTROLLING AUTHORITIES:
DOT/NHTS (crashworthiness)
EPA (emissions)

Engine Testing:



Fuel Systems:



Fuel Lubricants:



Powertrain Systems:



Dispensing

CONTROLLING AUTHORITIES:
State and Local Government
(zoning, building permits)

Containers:



Dispensing Operations:



Dispensing Components:



Storage

CONTROLLING AUTHORITIES:
State and Local Government
(zoning, building permits)

Containers:



Transfer Operations:



Container Components:



Container Siting:



Infrastructure

CONTROLLING AUTHORITIES:
DOT/PHMSA (over-road transport,
pipeline safety)

Test Methods and Specifications
for Fuels:



Pipeline and Piping Infrastructure:





Building and Fire Code
Requirements:



Key for Standards Development Organizations (SDOs)

This key provides the acronyms, names, and standards development areas that correspond with the standards development organization logos in the chart above.

| Organization Name | | | Standards Development Areas |
|---|--------|--|---|
|  | AGA | American Gas Association | Materials testing standards |
|  | API | American Petroleum Institute | Equipment standards for petroleum production, storage and handling |
|  | ASHRAE | American Society of Heating, Refrigerating, and Air-Conditioning Engineers | Promoting sustainability through research, standards writing, publishing, and education |
|  | ASME | American Society of Mechanical Engineers | Mechanical and multidisciplinary engineering, design codes and standards |
|  | ASTM | American Society for Testing and Materials | Technical test standards for materials, products, systems |
|  | CGA | Compressed Gas Association | Equipment design and performance standards for compressed gas systems and components |
|  | CSA | CSA Standards | US and Canadian equipment standards |
|  | DOT | Department of Transportation | Federal transportation regulatory agency |
|  | FERC | Federal Energy Regulatory Commission | Regulates interstate transmission of electricity, gas, and oil |
|  | GTI | Gas Technology Institute | Supplies technical support and training for the energy industry |
|  | ICC | International Code Council | Family of model building codes, including the International Fire Code |
|  | IEEE | Institute of Electrical and Electronics Engineers | Electrical standards |
|  | NERC | North American Electric Reliability Corporation | Produces standards for electric grid operation |
|  | NFPA | National Fire Protection Association | Model codes and standards, including the National Electric Code |
|  | NIST | National Institute of Standards and Technology | Measurement standards |
|  | SAE | Society of Automotive Engineers | Vehicle standards |
|  | NARUC | National Association of Regulatory Utility Commissioners | Represents state public service commissions |
|  | UL | Underwriters Laboratory | Equipment and performance testing standards |